

	GROUP Electrical	MODEL All Models
	NUMBER 064	DATE November 2013
TECHNICAL SERVICE BULLETIN		
SUBJECT: INTRODUCTION TO "T" CONNECTORS		

This bulletin introduces the new "T" Connectors and provides information concerning the correct use. As harness connector terminal pins get smaller, these new "T" Connectors are needed to correctly test circuits. Note that some of the new "T" Connectors have very small pins. It is very important to use the correct "T" Connector to avoid damage to the terminals of the vehicles harness and consequently, the "T" Connector. Do NOT force terminals together. The part numbers and specifications for the earlier "T" Connectors are also covered in this bulletin.

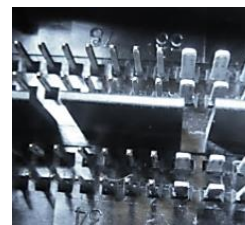
To help in selecting the correct "T" Connector, use a digital caliper to measure the male terminal in the vehicles harness. As some of the terminals are very small, it may be helpful to use a magnifying glass to distinguish round from square terminals.



Round



Square/Rectangle



Most newer vehicle harness connectors have male terminals that are 0.6mm thick. The current "T" Connector, Label P/N: *TCLE 020 A* , male terminals are 0.8mm thick. Inserting the 0.8mm male terminal into a 0.6mm female terminal will damage the harness. Always measure the thickness of the male terminal.



File Under: <Electrical>

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☒ **Service Advisors** ☒ **Technicians** ☒ **Body Shop Manager** ☒ **Fleet Repair**

These five new “T” Connectors have been sent to all dealers

New “T” Connector Set

Part Numbers	Description	Image
G1KDD NNP02 (set of 4)	Label P/N:: TCLE 020 D Spade type terminal with measurements of: 2.3mm x 0.6mm TYCO PCM Connectors	
	Label P/N:: TCLE 020 E Square type terminal with measurements of: 0.8mm x 0.6mm	
	Label P/N: TCLE 020 F Square type terminal with measurements of: 0.64mm x 0.64mm TYCO PCM Connector	
	Label P/N: TCLE 020 G Round type terminal with measurements of: 0.8mm DELPHI PCM Connector	

Note: “T” Connector TCLE 020 E terminals are rectangular and measure 0.8mm x 0.6mm. If the “T” Connector male terminal is rotated 90 degrees when inserted, it will damage the vehicle’s female terminal. It is very important to verify terminal size and orientation BEFORE connecting.

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TCLE 020 TRA	<p>Label P/N: TCLE 020 TRA</p> <p>Used to monitor the solenoid and sensor circuits on the 6-speed transmissions. This allows for easy resistance, voltage, scope testing and sensor simulation using the GDS with VMI.</p>	
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Note: Orientation tabs have been removed from the “T” Connector TCLE 020 TRA to allow for easy insertion into the vehicle’s harness connector. Move the lock lever to its locked position then insert the connector.

**Existing “T” Connector Sets**

Part Number	Description	Image
TCLES 020 A Set of 2	<p>Label P/N: TCLE 020 A</p> <p>Spade type terminal with measurements of: 2.9mm x 0.8mm</p>	
	<p>Label P/N: TCLE 020 B</p> <p>Spade type terminal with measurements of: 1.8mm x 0.6mm</p>	
TCLES 020 C	<p>Label P/N: TCLE 020 C</p> <p>Spade type terminal with measurements of: 1.2mm x 0.6mm</p>	

Note: Some early TCLE 020 A & TCLE 020 B “T” Connectors were mislabeled (A as B and B as A). Compare these “T” Connectors with the specifications listed above and re-label as needed.

“T” Connector Ordering

Additional “T” Connectors can be ordered through the Kia Part System using the listed part numbers.